

# Thienan Tran

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## EDUCATION

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**Boston University**  
*BA in Computer Science*  
GPA: 3.89

Boston, MA  
May 2024

## EXPERIENCE

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### Junior Software Engineer

May 2024 – Present

*Pelicago*

*Cambridge, MA*

- Collaborated with new interns through pair-programming, accelerating their onboarding process and increasing ticket resolution speed
- Identified and resolved a critical bug that exposed private emails to third parties, safeguarding the company from potential lawsuits
- Updated the quotes screen with additional information and filter functionality, increasing product value and customer satisfaction
- Implemented null submissions in key components, ensuring accurate data handling when specific information is unavailable
- **Technologies:** React, tRPC, Prisma, TypeScript, Typesense

### Software Engineer Intern

Nov 2023 – May 2024

*Pelicago*

*Cambridge, MA*

- Led the migration from Yup to Zod for improved input validation and type safety, reducing the risk of server crashes and bugs
- Diagnosed and fixed a critical emailing bug right before a major release, keeping the project on track
- Documented challenges and solutions encountered during AWS EC2 deployment, streamlining future deployment processes
- Integrated third-party APIs like Storyblok, Stripe, and HubSpot, enhancing marketing efforts and automating invoicing, saving hours of manual work
- **Technologies:** React, tRPC, Prisma, TypeScript, Typesense

## PROJECTS

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### Nand2Tetris | *HDL, Hack, Java*

Aug 2024 - Present

- Designed and implemented key components such as ALU, CPU, and memory modules, building a computer from the ground up
- Wrote low-level programs in Hack symbolic code, enabling multiplication between two numbers and handling of input/output devices
- Developed an assembler in Java to translate Hack symbolic code to binary

### Cloud Resume Challenge | *TypeScript, HTML, CSS, AWS CDK*

June 2024 - Aug 2024

- Configured AWS CDK to instantiate AWS resources through code, reducing development and deployment time
- Orchestrated AWS Route 53, Cloudfront, and S3 to host my website at <https://thienantran.com>

### Full-Stack Mafia Mystery Web App | *TypeScript, MongoDB, Express, React, Node*

June 2023 - Aug 2023

- Implemented JWT authentication and authorization to keep user data organized and safe
- Enabled real-time messaging and game updates for seamless and engaging gameplay
- Developed comprehensive Jest unit tests to ensure accurate game state calculations

### Photoshare | *Python, Flask, MySQL*

Feb 2023

- Designed an entity-relationship diagram that served as the foundation for the app's relational database
- Developed photo and friend recommendation features using complex MySQL joins and sub-queries

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, Python, Java

**Frameworks and Tools:** React, tRPC, Prisma, Typesense, AWS, Express, Flask, Node, MySQL, MongoDB